In the claims:

Claims 1 to 10 canceled.

- 11. (currently amended) A method of making a stator of an electric machine, said method comprising:
  - a) making individual generally strip-shaped laminas (15) for the stator;
- b) stacking the individual laminas (15) to form a stator core (13) with a yoke (26) having a yoke height (H<sub>yoke</sub>), so that one side of the stator core is provided with grooves (18) extending through the core;
- c) producing a subassembly by inserting a stator winding (17) into the grooves (18) of the stator core (13) formed in step b);
- d) bending the subassembly in a circular fashion to form a cylindrical cavity, so that the grooves (18) end in the cavity; and
- e) in order to keep the subassembly in a configuration with the cylindrical cavity, connecting at least two ends (23) of the stator core (13) to each other by means of a welding seam (20); and
- f) selecting a depth of the welding seam to give the welding seam a sufficient strength to absorb tensile forces occurring in the welding seam, but at the same time not to exert too excessive a negative influence on magnetic properties at a welding point due to structural changes occurring in the yoke, said selecting including selecting a welding seam depth  $(T_s)$  of the welding seam (20)

ieas a function of the yoke height ( $H_{yoke}$ ) and a tolerance value ( $\Delta T_S$ ) in accordance with the following formula (I):

$$T_S = 0.5 \text{ mm} * (H_{\text{voke}}/\text{mm} - 1) \pm \Delta T_S$$
 (I); and

selecting the welding seam depth  $(T_S)$  of the welding seam (20) to be not less than a minimum value  $(T_{Smin})$  and said minimum value  $(T_{Smin})$  to be dependent on the yoke height  $(H_{Yoke})$  and to be described by the following formula (II):  $T_{Smin} \equiv \{3/40\} * H_{Yoke}$ 

- 12. (previously presented) The method as defined in claim 11, further comprising selecting the tolerance value ( $\Delta T_S$ ) to be 1.0 mm.
- 13. (previously presented) The method as defined in claim 11, further comprising selecting the tolerance value  $(\Delta T_s)$  to be 0.5 mm.

Claim 14 cancelled.

- 15. (previously presented) The method as claimed in claim 11, further comprising arranging the welding seam (20) on a radial outside (30) of the yoke (26).
- 16. (previously presented) The method as claimed in claim 11, further comprising providing the stator core (13) with a plurality of teeth (25), arranging the welding seam (20) on a radial outside (30) of the yoke (26) and

arranging the welding seam (20) in one of said teeth, with said one of said teeth comprising two partial teeth (24).

- 17. (previously presented) The method as claimed in claim 11, further comprising disposing the welding seam (20) on at least one axial end of the stator core (13).
- 18. (previously presented) The method as claimed in claim 11, further comprising making the welding seam by a laser welding process with a laser beam.
- (currently amended) An electric machine comprising a stator
  (10) made-by a method, which comprises:
- a) makingincluding individual generally strip-shaped laminas (15) stackedfor the stator;
- b)-stacking-the-individual-laminas (15) to form a stator core (13) with a yoke (26) having a yoke height (H<sub>yoke</sub>), so that one side of the stator core is provided with grooves (18) extending through the core;
- c) producing a subassembly by inserting a stator winding (17) <u>inserted</u> into the grooves (18) of the stator core (13) <u>so that a subassembly is formed, which</u> subassembly is bentformed in step b);
  - d) bending the subassembly in a circular fashion to produce a cylindrical

cavity, so that the grooves (18) end in the cavity; and

e) in order to keep the subassembly in a configuration with the cylindrical eavity, a welding seam (20) connecting at least two ends (23) of the stator core (13) to each other by means of a welding seam (20) to keep the subassembly in a configuration with the cylindrical cavity;

wherein a welding seam depth  $(T_s)$  of the welding seam (20) is such that it gives the welding seam a sufficient strength to absorb tensile forces occurring in the welding seam, but at the same time the welding seam does not exert too excessive a negative influence on magnetic properties at a welding point due to structural changes occurring in the yoke, and therefore the welding seam depth  $(T_s)$  of the welding seam (20) is selected as a function of the yoke height  $(H_{yoke})$  and a tolerance value  $(\Delta T_s)$  in accordance with the following formula (I):  $T_s = 0.5 \text{ mm} * (H_{yoke}/\text{mm} - 1) \pm \Delta T_s$  (I); and

wherein the welding seam depth  $(T_S)$  of the welding seam (20) is not less than a minimum value  $(T_{Smin})$  and said minimum value  $(T_{Smin})$  depends on the yoke height  $(H_{yoke})$  and is described by the following formula (II):  $T_{Smin} = \{3/40\}^*$   $H_{Yoke}$ 

- (previously presented) The electric machine as defined in claim
  consisting of a generator.
- 21. (previously presented) The electric machine as defined in claim 19, wherein the tolerance value ( $\Delta T_S$ ) equals 1.0 mm.

22. (previously presented) The electric machine as defined in claim 19, wherein the tolerance value ( $\Delta T_{S}$ ) equals 0.5 mm.

Claim 23 cancelled.